

Federal Communications Commission

Pt. 90

to operate the same station as both an AWOS and as an ATIS, or as an ASOS and an ATIS, the same frequency will be used in both modes of operation.

[69 FR 52886, June 14, 2004]

PART 90—PRIVATE LAND MOBILE RADIO SERVICES

Subpart A—General Information

Sec.

- 90.1 Basis and purpose.
- 90.5 Other applicable rule parts.
- 90.7 Definitions.

Subpart B—Public Safety Radio Pool

- 90.15 Scope.
- 90.16 Public Safety National Plan.
- 90.20 Public Safety Pool.
- 90.22 Paging operations.

Subpart C—Industrial/Business Radio Pool

- 90.31 Scope.
- 90.33 General eligibility.
- 90.35 Industrial/Business Pool.

Subparts D–E [Reserved]

Subpart F—Radiolocation Service

- 90.101 Scope.
- 90.103 Radiolocation Service.

Subpart G—Applications and Authorizations

- 90.111 Scope.
- 90.115 Foreign government and alien eligibility.
- 90.119 Application requirements.
- 90.121 Canadian registration.
- 90.127 Submission and filing of applications.
- 90.129 Supplemental information to be routinely submitted with applications.
- 90.135 Modification of license.
- 90.137 Applications for operation at temporary locations.
- 90.138 Applications for itinerant frequencies.
- 90.149 License term.
- 90.155 Time in which station must be placed in operation.
- 90.157 Discontinuance of station operation.
- 90.159 Temporary and conditional permits.

SPECIAL RULES GOVERNING FACILITIES USED TO PROVIDE COMMERCIAL MOBILE RADIO SERVICES

- 90.165 Procedures for mutually exclusive applications.
- 90.168 Equal employment opportunities.
- 90.169 Construction prior to grant of application.

Subpart H—Policies Governing the Assignment of Frequencies

- 90.171 Scope.
- 90.173 Policies governing the assignment of frequencies.
- 90.175 Frequency coordination requirements.
- 90.176 Coordinator notification requirements on frequencies below 512 MHz or at 764–776/794–806 MHz.
- 90.179 Shared use of radio stations.
- 90.185 Multiple licensing of radio transmitting equipment in the mobile radio service.
- 90.187 Trunking in the bands between 150 and 512 MHz.

Subpart I—General Technical Standards

- 90.201 Scope.
- 90.203 Certification required.
- 90.205 Power and antenna height limits.
- 90.207 Types of emissions.
- 90.209 Bandwidth limitations.
- 90.210 Emission masks.
- 90.212 Provisions relating to the use of scrambling devices and digital voice modulation.
- 90.213 Frequency stability.
- 90.214 Transient frequency behavior.
- 90.215 Transmitter measurements.
- 90.217 Exemption from technical standards.
- 90.219 Use of signal boosters.

Subpart J—Non-Voice and Other Specialized Operations

- 90.231 Scope.
- 90.233 Base/mobile non-voice operations.
- 90.235 Secondary fixed signaling operations.
- 90.237 Interim provisions for operation of radioteleprinter and radiofacsimile devices.
- 90.238 Telemetry operations.
- 90.239 [Reserved]
- 90.241 Radio call box operations.
- 90.242 Travelers' information stations.
- 90.243 Mobile relay stations.
- 90.245 Fixed relay stations.
- 90.247 Mobile repeater stations.
- 90.248 Wildlife and ocean buoy tracking.
- 90.249 Control stations.
- 90.250 Meteor burst communications.

Subpart K—Standards for Special Frequencies or Frequency Bands

- 90.251 Scope.
- 90.253 Use of frequency 5167.5 kHz.
- 90.255 [Reserved]
- 90.257 Assignment and use of frequencies in the band 72–76 MHz.
- 90.259 Assignment and use of frequencies in the bands 216–220 MHz and 1427–1432 MHz.
- 90.261 Assignment and use of the frequencies in the band 450–470 MHz for fixed operations.

Pt. 90

47 CFR Ch. I (10–1–05 Edition)

- 90.263 Substitution of frequencies below 25 MHz.
- 90.264 Disaster communications between 2 and 10 MHz.
- 90.265 Assignment and use of frequencies in the bands allocated for Federal use.
- 90.266 Long distance communications on frequencies below 25 MHz.
- 90.267 Assignment and use of frequencies in the 450–470 MHz band for low-power use.
- 90.269 Use of frequencies for self-powered vehicle detectors.
- 90.273 Availability and use of frequencies in the 421–430 MHz band.
- 90.275 Selection and assignment of frequencies in the 421–430 MHz band.
- 90.279 Power limitations applicable to the 421–430 MHz band.
- 90.281 Restrictions on operational fixed stations in the 421–430 MHz band.
- 90.283 [Reserved]

Subpart L—Authorization in the Band 470–512 MHz (UHF-TV Sharing)

- 90.301 Scope.
- 90.303 Availability of frequencies.
- 90.305 Location of stations.
- 90.307 Protection criteria.
- 90.309 Tables and figures.
- 90.311 Frequencies.
- 90.313 Frequency loading criteria.
- 90.315 Special provisions governing use of frequencies in the 476–494 MHz band (TV Channels 15, 16, 17) in the Southern Louisiana-Texas Offshore Zone.
- 90.317 Fixed ancillary signaling and data transmissions.

Subpart M—Intelligent Transportation Systems Radio Service

- 90.350 Scope.
- 90.351 Location and Monitoring Service.
- 90.353 LMS operations in the 902–928 MHz band.
- 90.355 LMS operations below 512 MHz.
- 90.357 Frequencies for LMS systems in the 902–928 MHz band.
- 90.359 Field strength limits for EA-licensed LMS systems.
- 90.361 Interference from part 15 and Amateur operations.
- 90.363 Grandfathering provisions for existing AVM licensees.
- 90.365 Partitioned licenses and disaggregated spectrum.

REGULATIONS GOVERNING THE LICENSING AND USE OF FREQUENCIES IN THE 5850–5925 MHz BAND FOR DEDICATED SHORT-RANGE COMMUNICATIONS SERVICE (DSRCS)

- 90.371 Dedicated short range communications service.
- 90.373 Eligibility in the DSRCS.
- 90.375 RSU license areas, communication zones and registrations

- 90.377 Frequencies available; maximum EIRP and antenna height, and priority communications.
- 90.379 ASTM E2213–03 DSRC Standard (ASTM-DSRC Standard).
- 90.383 RSU sites near the U.S./Canada or U.S./Mexico border.

Subpart N—Operating Requirements

- 90.401 Scope.
- 90.403 General operating requirements.
- 90.405 Permissible communications.
- 90.407 Emergency communications.
- 90.411 Civil defense communications.
- 90.415 Prohibited uses.
- 90.417 Interstation communication.
- 90.419 Points of communication.
- 90.421 Operation of mobile station units not under the control of the licensee.
- 90.423 Operation on board aircraft.
- 90.425 Station identification.
- 90.427 Precautions against unauthorized operation.
- 90.429 Control point and dispatch point requirements.
- 90.431 Unattended operation.
- 90.433 Operator requirements.
- 90.437 Posting station licenses.
- 90.439 Inspection of stations.
- 90.441 Inspection and maintenance of antenna structure marking and associated control equipment.
- 90.443 Content of station records.
- 90.445 Form of station records.
- 90.447 Retention of station records.

Subpart O—Transmitter Control

- 90.460 Scope.
- 90.461 Direct and remote control of transmitters.
- 90.463 Transmitter control points.
- 90.465 Control of systems of communication.
- 90.467 Dispatch points.
- 90.469 Unattended operation.

INTERNAL TRANSMITTER CONTROL SYSTEMS

- 90.471 Points of operation in internal transmitter control systems.
- 90.473 Operation of internal transmitter control systems through licensed fixed control points.
- 90.475 Operation of internal transmitter control systems in specially equipped systems.

INTERCONNECTED SYSTEMS

- 90.476 Interconnection of fixed stations and certain mobile stations.
- 90.477 Interconnected systems.
- 90.483 Permissible methods and requirements of interconnecting private and public systems of communications.

Subpart P—Paging Operations

- 90.490 One-way paging operations in the private services.
- 90.492 One-way paging operations in the 806–824/851–869 MHz and 896–901/935–940 MHz bands.
- 90.493 Paging operations on exclusive channels in the 929–930 MHz band.
- 90.494 Paging operations on shared channels in the 929–930 MHz band.

Subpart Q—Developmental Operation

- 90.501 Scope.
- 90.503 Eligibility.
- 90.505 Showing required.
- 90.507 Limitations on use.
- 90.509 Frequencies available for assignment.
- 90.511 Interference.
- 90.513 Special provisions.
- 90.515 Change or cancellation of authorization without hearing.
- 90.517 Report of operation.

Subpart R—Regulations Governing the Licensing and Use of Frequencies in the 764–776 and 794–806 MHz Bands

- 90.521 Scope.
- 90.523 Eligibility.
- 90.525 Administration of Interoperability channels
- 90.527 Regional plan requirements.
- 90.529 State License.
- 90.531 Band plan.
- 90.533 Transmitting sites near the U.S./Canada or U.S./Mexico border.
- 90.535 Modulation and spectrum usage efficiency requirements.
- 90.537 Trunking requirement.
- 90.539 Frequency stability.
- 90.541 Transmitting power limits.
- 90.543 Emission limitations.
- 90.545 TV/DTV interference protection criteria.
- 90.547 Narrowband Interoperability channel capability requirement.
- 90.548 Interoperability technical standards.
- 90.549 Transmitter certification.
- 90.551 Construction requirements.
- 90.553 Encryption.

Subpart S—Regulations Governing Licensing and Use of Frequencies in the 806–824, 851–869, 896–901, and 935–940 MHz Bands

- 90.601 Scope.

APPLICATION FOR AUTHORIZATIONS

- 90.603 Eligibility.
- 90.605 Forms to be used.
- 90.607 Supplemental information to be furnished by applicants for facilities under this subpart.

- 90.609 Special limitations on amendment of applications for assignment or transfer of authorizations for radio systems above 800 MHz.

POLICIES GOVERNING THE PROCESSING OF APPLICATIONS AND THE SELECTION AND ASSIGNMENT OF FREQUENCIES FOR USE IN THE 806–824 MHz, 851–869 MHz, 896–901 MHz, AND 935–940 MHz BANDS

- 90.613 Frequencies available.
- 90.614 Cellular and non-cellular portions of 806–824/851–869 MHz band for non-border areas.
- 90.615 Individual channels available in the General Category in 806–824/851–869 MHz band.
- 90.617 Frequencies in the 809.750–824/854.750–869 MHz, and 896–901/935–940 MHz bands available for trunked, conventional or cellular system use in non-border areas.
- 90.619 Operations within the U.S./Mexico and U.S./Canada border areas.
- 90.621 Selection and assignment of frequencies.
- 90.623 Limitations on the number of frequencies assignable for conventional systems.
- 90.625 Other criteria to be applied in assigning channels for use in conventional systems of communication.
- 90.627 Limitation on the number of frequency pairs that may be assignable for trunked systems and on the number of trunked systems.
- 90.629 Extended implementation period.
- 90.631 Trunked systems loading, construction and authorization requirements.
- 90.633 Conventional systems loading requirements.

TECHNICAL REGULATIONS REGARDING THE USE OF FREQUENCIES IN THE 806–824 MHz, 851–869 MHz, 896–901 MHz, AND 935–940 MHz BANDS

- 90.635 Limitations on power and antenna height.
- 90.637 Restrictions on operational fixed stations.
- 90.645 Permissible operations.
- 90.647 Station identification.
- 90.651 Supplemental reports required of licensees authorized under this subpart.
- 90.653 Number of systems authorized in a geographical area.
- 90.655 Special licensing requirements for Specialized Mobile Radio systems.
- 90.656 Responsibilities of base station licensees of Specialized Mobile Radio systems.
- 90.658 Loading data required for base station licensees of trunked Specialized Mobile Radio systems to acquire additional channels or to renew trunked systems licensed before June 1, 1993.

POLICIES GOVERNING THE LICENSING AND USE OF MTA-BASED SMR SYSTEMS IN THE 896–901/935–940 MHz BAND

- 90.661 MTA-based SMR service areas.
- 90.663 MTA-based SMR system operations.
- 90.665 Authorization, construction and implementation of MTA licenses.
- 90.667 Grandfathering provisions for incumbent licensees.
- 90.669 Emission limits.
- 90.671 Field strength limits.

PROCEDURES AND PROCESS—UNACCEPTABLE INTERFERENCE

- 90.672 Unacceptable interference to non-cellular 800 MHz licensees from ESMR or Part 22 Cellular Radiotelephone systems.
- 90.673 Obligation to abate unacceptable interference.
- 90.674 Interference resolution procedures before, during and after band reconfiguration.
- 90.675 Information exchange.
- 90.676 Transition administrator for reconfiguration of the 806–824/851–869 MHz band in order to separate cellular systems from non-cellular systems.
- 90.677 Reconfiguration of the 806–824/851–869 MHz band in order to separate cellular systems from non-cellular systems.

POLICIES GOVERNING THE LICENSING AND USE OF EA-BASED SMR SYSTEMS IN THE 809–824/851–869 MHz BAND

- 90.681 EA-based SMR service areas.
- 90.683 EA-based SMR system operations.
- 90.685 Authorization, construction and implementation of EA licenses.
- 90.687 Special provisions regarding assignments and transfers of authorizations for incumbent SMR licensees in the 809–824/851–869 MHz band.
- 90.689 Field strength limits.
- 90.691 Emission mask requirements for EA-based systems.
- 90.693 Grandfathering provisions for incumbent licensees.
- 90.699 Transition of the upper 200 channels in the 800 MHz band to EA licensing.

Subpart T—Regulations Governing Licensing and Use of Frequencies in the 220–222 MHz Band

- 90.701 Scope.
- 90.703 Eligibility.
- 90.705 Forms to be used.
- 90.709 Special limitations on amendment of applications and on assignment or transfer of authorizations licensed under this subpart.
- 90.711 Processing of Phase II applications.
- 90.713 Entry criteria.
- 90.715 Frequencies available.
- 90.717 Channels available for nationwide systems in the 220–222 MHz band.

- 90.719 Individual channels available for assignment in the 220–222 MHz band.
- 90.720 Channels available for public safety/mutual aid.
- 90.721 Other channels available for non-nationwide systems in the 220–222 MHz band.
- 90.723 Selection and assignment of frequencies.
- 90.725 Construction requirements for Phase I licensees.
- 90.727 Extended implementation schedules for Phase I licensees.
- 90.729 Limitations on power and antenna height.
- 90.733 Permissible operations.
- 90.735 Station identification.
- 90.737 Supplemental reports required of Phase I licensees.
- 90.739 Number of systems authorized in a geographical area.
- 90.741 Urban areas for Phase I nationwide systems.
- 90.743 Renewal expectancy.
- 90.745 Phase I licensee service areas.
- 90.751 Minor modifications of Phase I, non-nationwide licenses.
- 90.753 Conditions of license modification.
- 90.757 Construction requirements.

POLICIES GOVERNING THE LICENSING AND USE OF PHASE II EA, REGIONAL AND NATIONWIDE SYSTEMS

- 90.761 EA and Regional licenses.
- 90.763 EA, Regional and nationwide system operations.
- 90.765 Licenses term for Phase II licenses.
- 90.767 Construction and implementation of EA and Regional licenses.
- 90.769 Construction and implementation of Phase II nationwide licenses.
- 90.771 Field strength limits.

Subpart U—Competitive Bidding Procedures for 900 MHz Specialized Mobile Radio Service

- 90.801 900 MHz SMR subject to competitive bidding.
- 90.802–90.803 [Reserved]
- 90.804 Aggregation of 900 MHz SMR licenses.
- 90.805–90.806 [Reserved]
- 90.807 Submission of upfront payments.
- 90.808 [Reserved]
- 90.809 License grants.
- 90.810 Bidding credits for small businesses.
- 90.811 Reduced down payment for licenses won by small businesses.
- 90.812 [Reserved]
- 90.813 Partitioned licenses and disaggregated spectrum.
- 90.814 Definitions.
- 90.815 Records maintenance and definitions.

Federal Communications Commission

§ 90.5

90.816 Criteria for comparative 900 MHz SMR renewal proceedings.

Subpart V—Competitive Bidding Procedures for 800 MHz Specialized Mobile Radio Service

90.901 800 MHz SMR spectrum subject to competitive bidding.
90.902 [Reserved]
90.903 Competitive bidding design for 800 MHz SMR licensing.
90.904 Aggregation of EA licenses.
90.905–90.908 [Reserved]
90.909 License grants.
90.910 Bidding credits.
90.911 Partitioned licenses and disaggregated spectrum.
90.912 Definitions.
90.913 Record maintenance and definitions.

Subpart W—Competitive Bidding Procedures for the 220 MHz Service

90.1001 220 MHz service subject to competitive bidding.
90.1003–90.1015 [Reserved]
90.1017 Bidding credits for small businesses and very small businesses.
90.1019 Eligibility for partitioned licenses.
90.1021 Definitions concerning competitive bidding process.
90.1023 Records maintenance and definitions.
90.1025 Limitations on settlements.

Subpart X—Competitive Bidding Procedures for Location and Monitoring Service

90.1101 Location and Monitoring Service subject to competitive bidding.
90.1103 Designated entities.

Subpart Y—Regulations Governing Licensing and Use of Frequencies in the 4940–4990 MHz Band

90.1201 Scope.
90.1203 Eligibility.
90.1205 Permissible operations.
90.1207 Licensing.
90.1209 Policies governing the use of the 4940–4990 MHz band.
90.1211 Regional plan.
90.1213 Band plan.
90.1215 Power limits.
90.1217 RF hazards.

Subpart Z—Wireless Broadband Services in the 3650–3700 MHz Band

90.1301 Scope.
90.1303 Eligibility.
90.1305 Permissible operations.
90.1307 Licensing.
90.1309 Regulatory status.

90.1311 License term.
90.1312 Assignment and transfer.
90.1319 Policies governing the use of the 3650–3700 MHz band.
90.1321 Power and antenna limits.
90.1323 Emission limits.
90.1331 Restrictions on the operation of base and fixed stations.
90.1333 Restrictions on the operation of mobile and portable stations.
90.1335 RF safety.
90.1337 Operation near Canadian and Mexican borders.

AUTHORITY: Sections 4(i), 11, 303(g), 303(r), and 332(c)(7) of the Communications Act of 1934, as amended, 47 U.S.C. 154(i), 161, 303(g), 303(r), 332(c)(7).

SOURCE: 43 FR 54791, Nov. 22, 1978, unless otherwise noted.

Subpart A—General Information

§ 90.1 Basis and purpose.

(a) *Basis.* The rules in this part are promulgated under Title III of the Communications Act of 1934, as amended which vests authority in the Federal Communications Commission to regulate radio transmission and to issue licenses for radio stations. All rules in this part are in accordance with applicable treaties and agreements to which the United States is a party.

(b) *Purpose.* This part states the conditions under which radio communications systems may be licensed and used in the Public Safety, Industrial/Business Radio Pool, and Radiolocation Radio Services. These rules do not govern the licensing of radio systems belonging to and operated by the United States.

[43 FR 54791, Nov. 22, 1978, as amended at 65 FR 66650, Nov. 7, 2000]

§ 90.5 Other applicable rule parts.

Other Commission rule parts of importance that may be referred to with respect to licensing and operations in radio services governed under this part include the following:

(a) Part 0 of the Commission's Rules describes the Commission's organization and delegations of authority. This part also lists available Commission publications, and standards and procedures for access to Commission records, and location of Commission Field Offices.